

CLAIMS

What is claimed is:

1. A hermetic seal comprising an adhesive mixed with an active component that can act as an absorbing filter on a molecular level.
2. The hermetic seal of claim 1, wherein the active component can include a zeolite.
3. The hermetic seal of claim 1, wherein the active component can act as a moisture and/or particle getter.
4. The hermetic seal of claim 1, wherein the active component can absorb a molecule of up to ten angstroms diameter.
5. The hermetic seal of claim 1, wherein the active component can absorb a molecule of up to two angstroms diameter.
6. The hermetic seal of claim 1, wherein active component is mixed with the adhesive in a weight ratio of 50:50.
7. The hermetic seal of claim 1, wherein the hermetic seal is applied as a bead between two surfaces to seal the two surfaces.
8. A micro-electromechanical systems based device package comprising:
 - a back plate glass;
 - a substrate glass; and
 - a bead of an adhesive mixed with a zeolite applied between the back plate glass and the substrate glass.
9. The micro-electromechanical systems based device package of claim 8, further comprising a mirror processed on the substrate glass.

b ~~2~~¹⁰. The micro-electromechanical systems based device package of claim ~~8~~¹, including the bead being applied around the perimeter of the mirror.

b ~~3~~¹¹. The micro-electromechanical systems based device package of claim ~~9~~^{8/1}, wherein the bead acts as a hermetic seal.

b ~~4~~¹². The micro-electromechanical systems based device package of claim ~~9~~^{8/1}, wherein the bead traps moisture and other contaminant gases that can be harmful to the mirror.

~~5~~¹³. The micro-electromechanical systems based device package of claim ~~9~~¹, wherein the micro-electromechanical systems device includes an electronic display screen.

14. A device including:
a first surface;
a second surface; and
a bead of an adhesive mixed with an active component that can act as an absorbing filter on a molecular level;
wherein the bead seals the first surface with the second surface.

sub A2 15. The device of claim 14, wherein the surface can include a glass surface, a metal surface, a polymer surface, a plastic surface, an alloy surface, a ceramic surface, or a combination thereof.

16. The device of claim 14, wherein the bead provides a mechanical support to the device.

17. The device of claim 14, wherein the active component can include a zeolite.

18. The device of claim 14, wherein the bead functions as a hermetic seal.

19. The device of claim 14, wherein the bead traps moisture and contaminant gases.

20. A method to create a hermetic seal comprising mixing an adhesive with an active component that can act as an absorbing filter on a molecular level.
21. The method of claim 20, including using a zeolite as the active component.
22. A method comprising using a bead of an adhesive mixed with an active component that can act as an absorbing filter on a molecular level to seal a first surface to a second surface.
23. The method of claim 22, including using a zeolite as the active component.
24. The method of claim 22, including using the surface made from glass, metal, polymer, plastic, alloy, ceramic, or a combination thereof.

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